

TITLE

BREATHING

T	S	Description	Remarks	Ft.
1		HEALTH SERIES - PHYSIOLOGY	5	
		BREATHING		
		EASTMAN CLASSROOM FILMS		
2		Made in co-operation with the department of Biology and Public Health MASSACHUSETTS INSTITUTE OF TECHNOLOGY	10	5
	1	Sprinters racing at an athletic meet.	16	6
	2	Looking down on a football game. Players in action,	31	15
3		Good lungs are an asset	35	4
	3	Looking down on a football game during action.	49	14
	4	Animation - "The mechanics of Breathing" ribs in phantom, body of runner dissolves to outline - Label- "Ribs" - Animate breathing action - Label position of heart - Label dia- phragm, breathing action continues throughout scene.	114	65
4		A classroom model shows how the diaphragm helps to enlarge the chest cavity and draw air into the lungs.	128	14
	5	Close-up of classroom model of lungs, model assembled and demonstrated. Cross dissolve to silhouette of the same in action.	155½	27½
5		Artificial respiration illustrates the mechanics of breathing	161	5½
	6	Full view demonstration of Schafer method of artificial respiration.	173	12
	7	Close-up over-head view of the same.	184	

Film Script

Date _____

Scenario No. E- _____

TITLE

T	S	Description	Remarks	Ft.
	8	Animation - "The air passages" Dissolve to outline of head, phantom in nostrils, label "Nostrils" with pointer action. Phantom sinuses, label and pointer action. Cross dissolve to skull, "Air passages and sinuses may be shown in a picture of the skull" label and pointer action "Turbinates" Dissolve in sinuses with label and pointer action, Super-imposed title "The turbinate bones and the sinuses increase the surface area." Fade out.	282	98
	9	Animation - Lateral view of the skull. Cross dissolve to lateral outline of head. Cross dissolve to lateral view of head with rendering of air passages in section. Super-imposed title "The breathing tubes are lined with ciliated epithelium." Circle with arrow in nasal passage. Fade out.	322	40
	10	Photomicrograph of section of ciliated cells showing flow produced by cilia. High and low magnification.	341	19
	11	Animation of scene 9 continues. Label with arrow "position of adenoid" Label with arrow "position of tonsil" Fade out to both labels. Label with arrow "Adenoid" - Label with arrow - "Tonsil" - Label with pointer action - "Pharynx" - Label with pointer action - "Larynx" - Label with pointer action - "Trachea" - Label with pointer action - "Esophagus" - Super-imposed title "The Esophagus lies back of the trachea." Pointer action over esophagus. Circle around larynx. Enlarge to a sectional view of larynx and trachea - Super-imposed title with arrow - "Epiglottis" - Completion of super-imposed title "The epiglottis closes over the larynx during the act of swallowing." Cross dissolve to outline drawing of larynx. Animation act of swallowing four times. Cross dissolve to rendering of larynx. Fade in, external structure of larynx and trachea. Fade out.	429	88

Date _____

Scenario No. E- _____

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T	S	Description	Remarks	Ft.
	12	Actual photograph of model of larynx, lateral view. Rotate model to give posterior view. Open model and point out epiglottis and vocal cords. Close model and tilt to show internal structure of larynx. Cross dissolve to closer view of model of larynx, pointing out vocal cords.	515	96
	13	Animation - open with rendering of vocal cords in relaxed position. Label with pointer "Vocal Cord" - cross dissolve to outlined drawing and animate contraction of the vocal cords. Cross dissolve to rendering of vocal cords in contracted position.	562	47
6		THE STRUCTURE AND FUNCTION OF THE LUNGS	568	6
	14	Frontal view of trunk of mannikin. Cross dissolve to same showing position of interior organs. Remove lungs and heart.	594	26
	15	Close-up of chest of mannikin. Cross dissolve exposing lungs and heart.	666	72
	16	Animation - frontal view of head and trunk of runner - Phantom in lungs and trachea. Cross dissolve to outline drawing of runner. Animate ordinary breathing. Super-imposed title "Inflation of the lungs during ordinary breathing". - Animate vigorous breathing - Super-imposed title "The lungs are more completely filled during vigorous exercise."	679	13
	17	Man breathing into spirometer - normal breathing - cross dissolve to man without coat breathing into spirometer after vigorous breathing.	704	25
	18	Animation - frontal view of runner's head and trunk with lungs and trachea in phantom - label with pointer action "Trachea" - label with pointer action "Lungs" - Cross dissolve to air passages of the lungs on same subject.		
(Continue on next page)				

Date _____

Scenario No. E- _____

TITLE

T	S	Description	Remarks	Ft.
		(Continue from page 3)		
		Label with pointer action "bronchi" - Label with pointer action "Alveoli" - Cross dissolve to enlarged alveoli to show structure. - Circle around small group of alveoli enlarged - label "Alveoli" - circle around an alveolus enlarged to fill screen - section of alveolus to show internal structure - circle portion of wall of alveolus, enlarge to fill screen - label with pointer action "Epithelial cells - label with pointer action "Capillary wall" - label with pointer action "Air space on each side of wall" - label "Red blood corpuscles" - animate movement of red blood corpuscles in capillary - label "Give off carbon dioxide" - Animate with black dots - label and remove black dots - label "take up oxygen" - animate with white dots with both labels - cross dis- solve to single alveolus - cross dis- solve to group of alveoli - cross dis- solve to branching air passages - cross dissolve to outline view of runner - lungs in phantom - cross dis- solve to runner as he finished the race. Super-imposed title "Good lungs are an asset."	905	211
19		General view of a rowing race.	(Kinogram) 932	17
20		Different view of the same.	" 937	5
21		Close-up of the rowers	" 949	12
22		General view of a swimming race.	" 956	7
23		Closer view of the swimmers.	" 972	16
24		Close-up of some of the swimmers	" 990	18

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